

**A POWER GENERATION SYSTEM INCLUDING AN APPARATUS  
FOR ATTACHING A GENERATOR STATOR CORE TO A  
FRAME SUPPORT AND ASSOCIATED METHODS**

**Abstract Of The Disclosure**

A power generation system (10) including an apparatus for attaching a generator stator core (20) to a frame support (30) and associated methods are provided. The system (10) preferably includes a stator core frame support member (30) and a generator stator core (20) including a plurality of keybars (22) positioned spaced-apart and extending along outer peripheral portions of the generator stator core (20). The generator stator core (20) is positioned to overlies the stator core frame support member (30). The system (10) further includes a core supporter (40) connected to the stator core frame support member (30) and positioned to contact the generator stator core (20). The core supporter (40) includes first (43) and second (44) core connectors (42) for stabilizing the power generation system and relieving vibration and eliminating lateral movement of the generator stator core (20) during operation. The method of stabilizing the power generation system (10) during operation includes attaching first (43) and second (44) core supporters (42) along a stator core frame support (30) and positioning the generator stator core (20) to overlies the stator core frame support (30). The method also includes connecting the generator stator core (20) to the first (43) and second (44) core supporters (42) so that a connection is made between the generator stator core (20) and the stator core frame support (30).